

# Index for Volume 48 (1977)

This index is composed of the following three subindexes: I. Bibliographical Index; II. Author Index; and III. Topic Index.

Entries in the bibliographical index have been indexed by the last name of the author or, in the case of multiple authors, by the last name of the senior (first) author. Reference information includes the name(s) of the author(s), title of the article, the month of publication, and the page on which it begins.

The author index cites the name of each author included in the volume, followed by the month(s) of publication and the page(s) on which the article(s) begin.

In the topic index, each article is listed under those important subjects about which the article provides information. The numbers refer to the initial page of the article(s) in which the topic is discussed.

## I. BIBLIOGRAPHICAL INDEX

- Alberts, Carol L., and Landers, Daniel M. Birth order, motor performance, and maternal influence. Dec. 661.
- Apgar, Fred M. Emphasis placed on winning in athletics by male high school students. May 253.
- Aronchick, Joel, and Burke, Edmund J. Psycho-physical effects of varied rest intervals following warm-up. May 260.
- Barnett, Mary L. Effects of two methods of goal setting on learning a gross motor task. Mar. 19.
- Berenson, Mark L., and Wolf, Edward H. Aligned rank tests for randomized block experiments. Oct. 623.
- Bird, Anne Marie. Development of a model for predicting team performance. Mar. 24.
- Bober, Tadeusz and Szyślak, Wiesława. Measuring the adaptation of movement to outside forces. Dec. 800.
- Bryant, Fred O.; Burkett, Lee N.; Chen, Stanley S.; Krahenbuhl, Gary S.; and Lu, Ping. Dynamic and performance characteristics of baseball bats. Oct. 505.
- Burke, Edmund J. Physiological effects of similar training programs in males and females. Oct. 510.
- Carron, Albert V., and Bennett, Bonnie B. Compatibility in the coach-athlete dyad. Dec. 671.
- Casher, Bonnie Berger. Relationship between birth order and participation in dangerous sports. Mar. 33.
- Chai, Dennis X. Future of leisure: A Delphi application. Oct. 518.
- Chasey, William C. Motor skill overlearning effects on retention and relearning by retarded boys. Mar. 41.
- Chasey, William C.; Haywood, H. Carl; and Tzuril, David. Effects of various stimuli on activity level and learning by high- and low-active retarded children. May 265.
- Christensen, James E., and Christensen, Charlene E. Statistical power analysis of health, physical education, and recreation research. Mar. 204.
- Clark, Frank; Paul, Tom; and Davis, Myron. A convenient procedure and computer program for obtaining instantaneous velocities from stroboscopic photography. Oct. 628.
- Cureton, Kirk J.; Boileau, Richard A.; Lohman, Timothy G.; and Misner, James E. Determinants of distance running performance in children: Analysis of a path model. May 270.
- Custer, Sally J., and Chaloupka, Edward C. Relationship between predicted maximal oxygen consumption and running performance of college females. Mar. 47.
- DiNucci, James M., and Shows, David A. A comparison of the motor performance of Black and Caucasian girls age 6-8. Dec. 680.
- Duke, Marshall; Johnson, Thomas C.; and Nowicki, Stephen, Jr. Effects of sports fitness camp experience on locus of con-

# Index for Volume 48 (1977)

This index is composed of the following three subindexes: I. Bibliographical Index; II. Author Index; and III. Topic Index.

Entries in the bibliographical index have been indexed by the last name of the author or, in the case of multiple authors, by the last name of the senior (first) author. Reference information includes the name(s) of the author(s), title of the article, the month of publication, and the page on which it begins.

The author index cites the name of each author included in the volume, followed by the month(s) of publication and the page(s) on which the article(s) begin.

In the topic index, each article is listed under those important subjects about which the article provides information. The numbers refer to the initial page of the article(s) in which the topic is discussed.

## I. BIBLIOGRAPHICAL INDEX

- Alberts, Carol L., and Landers, Daniel M. Birth order, motor performance, and maternal influence. Dec. 661.
- Apgar, Fred M. Emphasis placed on winning in athletics by male high school students. May 253.
- Aronchick, Joel, and Burke, Edmund J. Psycho-physical effects of varied rest intervals following warm-up. May 260.
- Barnett, Mary L. Effects of two methods of goal setting on learning a gross motor task. Mar. 19.
- Berenson, Mark L., and Wolf, Edward H. Aligned rank tests for randomized block experiments. Oct. 623.
- Bird, Anne Marie. Development of a model for predicting team performance. Mar. 24.
- Bober, Tadeusz and Szyślak, Wiesława. Measuring the adaptation of movement to outside forces. Dec. 800.
- Bryant, Fred O.; Burkett, Lee N.; Chen, Stanley S.; Krahenbuhl, Gary S.; and Lu, Ping. Dynamic and performance characteristics of baseball bats. Oct. 505.
- Burke, Edmund J. Physiological effects of similar training programs in males and females. Oct. 510.
- Carron, Albert V., and Bennett, Bonnie B. Compatibility in the coach-athlete dyad. Dec. 671.
- Casher, Bonnie Berger. Relationship between birth order and participation in dangerous sports. Mar. 33.
- Chai, Dennis X. Future of leisure: A Delphi application. Oct. 518.
- Chasey, William C. Motor skill overlearning effects on retention and relearning by retarded boys. Mar. 41.
- Chasey, William C.; Haywood, H. Carl; and Tzuriel, David. Effects of various stimuli on activity level and learning by high- and low-active retarded children. May 265.
- Christensen, James E., and Christensen, Charlene E. Statistical power analysis of health, physical education, and recreation research. Mar. 204.
- Clark, Frank; Paul, Tom; and Davis, Myron. A convenient procedure and computer program for obtaining instantaneous velocities from stroboscopic photography. Oct. 628.
- Cureton, Kirk J.; Boileau, Richard A.; Lohman, Timothy G.; and Misner, James E. Determinants of distance running performance in children: Analysis of a path model. May 270.
- Custer, Sally J., and Chaloupka, Edward C. Relationship between predicted maximal oxygen consumption and running performance of college females. Mar. 47.
- DiNucci, James M., and Shows, David A. A comparison of the motor performance of Black and Caucasian girls age 6-8. Dec. 680.
- Duke, Marshall; Johnson, Thomas C.; and Nowicki, Stephen, Jr. Effects of sports fitness camp experience on locus of con-

- trol orientation in children ages 6 to 14. May 280.
- Dunham, Paul, Jr. Effect of bilateral transfer on coincidence/anticipation performance. Mar. 51.
- Dunham, Paul, Jr. Effect of practice order on the efficiency of bilateral skill acquisition. May 284.
- Duquin, Mary E. Differential sex role socialization toward amplitude appropriation. May 288.
- Emes, Claudia. Physical work capacity of wheelchair athletes. Mar. 209.
- Fahey, Thomas D.; Kerr, Terry; Ohelson, George; and Schroeder, Richard. Substitution of fingertip blood for venous blood in the measurement of hematocrit and hemoglobin following exercise. May 293.
- Feltz, Deborah L., and Landers, Daniel M. Informational-motivational components of a model's demonstration. Oct. 525.
- Fielding, Lawrence W. Sport and the terrible swift sword. Mar. 1.
- Finn, Joan A., and Straub, William F. Locus of control among Dutch and American women softball players. Mar. 56.
- Fisher, A. Garth, and Ramey, John S. Electronic squat monitor. Mar. 213.
- Gayle, Richard; Montoye, Henry J.; and Philpot, John. Accuracy of pedometers for measuring distance walked. Oct. 632.
- Getchell, Leroy H.; Kirkendall, Donald; and Robbins, Gwen. Prediction of maximal oxygen uptake in young adult women joggers. Mar. 61.
- Gill, Diane L. Influence of group success-failure and relative ability on intrapersonal variables. Dec. 685.
- Gilliam, Thomas B.; Sady, Stanley; Thorland, William G.; and Weltman, Arthur L. Comparison of peak performance measures in children ages 6 to 8, 9 to 10, and 11 to 13 years. Dec. 695.
- Girandola, Robert N.; Wiswell, Robert A.; and Romero, Gary. Body composition changes resulting from fluid ingestion and dehydration. May 299.
- Graham, Gerald P., and Bruce, Patricia J. Survey of intercollegiate athletic injuries to women. Mar. 219.
- Greendorfer, Susan L. Role of socializing agents in female sport involvement. May 304.
- Gruber, Joseph J., and Noland, Melody. Perceptual-motor and scholastic achievement relationships in emotionally disturbed elementary school children. Mar. 68.
- Halverson, Lolas E.; Robertson, Mary Ann; Safrit, M. Joanne; and Roberts, Thomas W. Effect of guided practice on overhand-throw ball velocities of kindergarten children. May 311.
- Haywood, Kathleen M., and Singleton, Russell M. Circuitry for an electronic coincidence-anticipation device. May 461.
- Henry, Franklin M. Blocking (pairing by ranks within groups) is statistically correct. Mar. 221.
- Heyward, Vivian, and McCreary, Leslie. Analysis of the static strength and relative endurance of women athletes. Dec. 703.
- Hopkins, David R. Factor analysis of selected basketball skill tests. Oct. 535.
- Horgan, James S. Stabilometer performance of educable mentally retarded children under differential feedback conditions. Dec. 711.
- Iso-Ahola, Seppo. Effects of self-enhancement and consistency on causal and trait attributions following success and failure in motor performance. Dec. 717.
- Iso-Ahola, Seppo, and Roberts, Glyn C. Causal attributions following success and failure at an achievement motor task. Oct. 541.
- Johnson, Robert E. A technique for determining the path of the whole body center of gravity. Mar. 222.
- Johnson, Roger, and Meeter, Duane. Estimation of maximum physical performance. Mar. 74.
- Katch, Victor; Weltman, Arthur; Martin, Robert; and Gray, Laurence. Optimal test characteristics for maximal anaerobic work on the bicycle ergometer. May 319.
- Kaufmann, D. A., and Ware, W. B. Effect of warm-up and recovery techniques on repeated running endurance. May 328.
- Kelley, E. James, and Lindsay, Carl A. Knowledge obsolescence in physical educators. May 463.
- Kieffer, Leigh F. Relationship of trait anxiety, peer presence, task difficulty, and skill acquisition of sixth-grade boys. Oct. 550.

- Kingsley, Joan L.; Brown, Foster Lloyd; and Seibert, Margret E. Social acceptance of female athletes by college women. Dec. 727.
- Korell, Diane M., and Safrit, Margaret J. Comparison of seriation and multidimensional scaling: Two techniques for validating constructs in physical education. May 333.
- Krahenbuhl, Gary S., and Martin, Stephen L. Adolescent body size and flexibility. Dec. 797.
- Kroll, Walter. Psychological scaling of AIAW code of ethics for coaches. Mar. 233.
- Kroll, Walter. Psychological scaling of AIAW code of ethics for officials and spectators. May 475.
- Lampley, James H.; Lampley, Pamela M.; and Howley, Edward T. Caloric cost of playing golf. Oct. 637.
- Levine, David M. Nonmetric multidimensional scaling and hierarchical clustering: Procedures for the investigation of the perception of sports. May 340.
- Linden, Michael. Factor analytical study of Olympic decathlon data. Oct. 562.
- Lindquist, E. Lorraine, and Witte, Fae. Comparison of women's beginning tennis skills under three different time schedules. Mar. 85.
- Little, Mildred J., and Jessup, George T. Determining limb volume by a point-gage, water-displacement technique. Mar. 239.
- Marino, G. Wayne. Kinematics of ice skating at different velocities. Mar. 95.
- Martinek, Thomas J.; Zaichowsky, Leonard D.; and Cheffers, John T. F. Decision-making in elementary age children: Effects on motor skills and self-concept. May 349.
- McCafferty, William B., and Horvath, Steven M. Specificity of exercise and specificity of training: A subcellular review. May 358.
- McDavid, Robert F. Predicting potential in football players. Mar. 98.
- McLaughlin, Thomas M.; Dillman, Charles J.; and Lardner, Thomas J. Biomechanical analysis with cubic spline functions. Oct. 569.
- Michael, Ernest D., Jr., and Katch, Victor. Effects of speed and grade change on the ability to reproduce a standard work effort. Mar. 105.
- Moffatt, Robert J.; Stamford, Bryant A.; and Neill, Robert D. Placement of tri-weekly training sessions: Importance regarding enhancement of aerobic capacity. Oct. 583.
- Montoye, Henry J., and Lamphiear, Donald E. Grip and arm strength in males and females, age 10 to 69. Mar. 109.
- Morris, Alfred F. Effects of fatiguing isometric and isotonic exercise on fractionated patellar tendon reflex components. Mar. 121.
- Morris, G. S. Don, and Kreighbaum, Ellen. Dynamic visual acuity of varsity women volleyball and basketball players. May 480.
- Morrow, James R., Jr. Some statistics regarding the reliability and validity of student ratings of teachers. May 372.
- Newmeister, Gayla Hansen. Effects of a visually directed sensory-motor training program on depth perception of children. Mar. 129.
- Newton, John; Provancher, John; Abramson, Dee; and Lewis, Sue. Inexpensive timing method for cinematography. May 484.
- Ordway, George A.; Kearney, Jay T.; and Stull, G. Alan. Rhythmic isometric fatigue patterns of the elbow flexors and knee extensors. Dec. 734.
- Penman, Kenneth A.; Christopher, Jon R.; and Wood, Geoffrey S. Using gross motor activity to improve language arts concepts by third grade students. Mar. 134.
- Pipes, Thomas V. Body composition characteristics of male and female track and field athletes. Mar. 244.
- Polidoro, J. Richard. Professional preparation programs of physical education teachers in Norway, Sweden, and Denmark. Oct. 640.
- Pruitt, B. E. Survey of contraceptive services available to college students. May 489.
- Renick, Jobyann. Tie point strategy in badminton and international squash. May 492.
- Ridenour, Marcella V. Influence of object size, speed, direction, height, and distance on interception of a moving object. Mar. 138.

- Safrit, Margaret J.; Stamm, Carol L.; Russell, Kathryn R. E.; and Sloan, Muriel R. Effect of environment and order of testing on performance of a motor task. May 376.
- SaVile, William A. A simple method of recording dry gas volumes. Oct. 650.
- Scanlan, Tara Kost. The effects of success-failure on the perception of threat in a competitive situation. Mar. 144.
- Schnabl-Dickey, Elizabeth A. Relationships between parents' child-rearing attitudes and the jumping and throwing performance of their preschool children. May 382.
- Schutz, Robert W., and Kinsey, William J. Comparison of North American and international squash scoring systems—a computer simulation. Mar. 248.
- Shapiro, Diane C. Knowledge of results and motor learning in preschool children. Mar. 154.
- Shepherd, B. H.; Pushkin, Martin H.; Robertshaw, Harry H.; and Wrisberg, Craig A. An instrument for presenting sequences of rhythmic and nonrhythmic auditory signals. Oct. 647.
- Shire, Tanya L.; Avallone, John P., Jr.; Boileau, Richard A.; Lohman, Timothy G.; and Wirth, John C. Effect of high resistance and low resistance bicycle ergometer training in college women on cardiorespiratory function and body composition. May 391.
- Sinning, Wayne E.; Cunningham, Lee N.; Racaniello, Annette P.; and Sholes, Janet L. Body composition and somatotype of male and female Nordic skiers. Dec. 741.
- Slaughter, M. H.; Lohman, T. G.; and Boileau, R. A. Relationship of health and Carter's second component to lean body mass and height in college women. Dec. 759.
- Slaughter, M. H., and Lohman, T. G. Relationship of body composition to somatotype in boys ages 7 to 12 years. Dec. 750.
- Slaughter, M. H.; Lohman, T. G.; and Miser, J. E. Relationship of somatotype and body composition to physical performance in 7 to 12 year old boys. Mar. 159.
- Slovic, Paul. Empirical study of training and performance in the Marathon. Dec. 769.
- Smith, Ronald E.; Smoll, Frank L.; and Hunt, Earl. A system for the behavioral assessment of athletic coaches. May 401.
- Sparling, Phillip B. Exercise stress testing programs in the United States: A 1975 status study. Dec. 778.
- Spieth, William R. Investigation of two pitching conditions as determinants for developing fundamental skills of baseball. May 408.
- Stamm, Carol Lee, and Safrit, Margaret J. Comparison of two nonparametric methods for estimating the reliability of motor performance tests. Mar. 169.
- Stephenson, Deborah A., and Jackson, Andrew S. The effects of training and position on judges' ratings of a gymnastic event. Mar. 177.
- Stewart, Kerry Jay. A FORTRAN program for reducing metabolic data when metering inspired air. Mar. 202.
- Stewart, Kerry J.; Williams, Christine M.; and Gutin, Bernard. Determinants of cardiorespiratory endurance in college women. May 413.
- Stranak, Linn M. A note on the practicality of sprinter's starts for base stealing. Dec. 805.
- Thaxton, Anna B.; Rothstein, Anne L.; and Thaxton, Nolan A. Comparative effectiveness of two methods of teaching physical education to elementary school girls. May 420.
- Thomas, Jerry R.; Pierce, Caryl; and Ridsdale, Susan. Age differences in children's ability to model motor behavior. Oct. 592.
- Thomas, Jerry R., and Stratton, Richard K. Effect of divided attention on children's rhythmic response. May 428.
- Van Handel, Peter J.; Burke, Edmund; Costill, David L.; and Cote, Richard. Physiological responses to cola ingestion. May 436.
- Wankel, Leonard M. Audience size and trait anxiety effects upon state anxiety and motor performance. Mar. 181.
- Watts, Parris R. Comparison of three human sexuality teaching methods used in university health classes. Mar. 187.
- Weber, Marie. Physical education teacher role identification instrument. May 445.
- Weltman, Arthur; Stamford, Bryant A.; Moffatt, Robert J.; and Katch, V. Leslie. Exercise recovery, lactate removal, and subsequent high intensity exercise performance. Dec. 786.

- Whiddon, Thomas, and Halpin, Gerald. Relationships between drug knowledge and drug attitudes for students in large, intermediate, and small schools. Mar. 191.
- Williams, Harriet G., and Helfrich, Janet. Saccadic eye movement speed and motor response execution. Oct. 598.
- Williams, L. R. T.; Lodge, B.; and Reddish, P. S. Effects of transcendental meditation on rotary pursuit skill. Mar. 196.
- Williams, Melvin H., and Ward, Anderson J. Hematological changes elicited by prolonged intermittent aerobic exercise. Oct. 606.
- Wilson, Barry D. Toppling techniques in diving. Dec. 806.
- Woodman, William F. An adapted model of the sport participation choice process. May 452.
- Young, R. John, and Ismail, A. H. Comparison of selected physiological and personality variables in regular and non-regular adult male exercisers. Oct. 617.
- Young, Michael; Crookshank, H. R.; and Ponder, Leonard. Effects of an anabolic steroid on selected parameters in male albino rats. Oct. 653.
- Zingale, Donald P. "Ike" revisited on sport and national fitness. Mar. 12.
- Zuti, William B., and Corbin, Charles B. Physical fitness norms for college freshman. May 499.

## II. AUTHOR INDEX

After the name of each author are the month(s) of publication and the page(s) on which the article(s) begin.

### A

Abramson, Dec. May 484.  
 Alberts, Carol L., Dec. 661  
 Appgar, Fred M., May 253.  
 Aronchick, Joel, May 260.  
 Avallone, John P., Jr., May 391.

### B

Barnett, Mary L., Mar. 19.  
 Bennett, Bonnie B., Dec. 671.  
 Berenson, Mark L., Oct. 623.  
 Bird, Anne Marie, Mar. 24.  
 Bober, Tadeusz, Dec. 800.  
 Boileau, Richard A., May 270, 391; Dec. 759.  
 Brown, Foster Lloyd, Dec. 727.  
 Bruce, Patricia J., Mar. 219.  
 Bryant, Fred O., Oct. 505.  
 Burke, Edmund, May 436.  
 Burke, Edmund J., May 260; Oct. 510.  
 Burkett, Lee N., Oct. 505.

### C

Carron, Albert V., Dec. 671.  
 Casher, Bonnie Berger, Mar. 33.  
 Chai, Dennis X., Oct. 518.  
 Chaloupka, Edward C., Mar. 47.  
 Chasey, William C., Mar. 41; May 265.  
 Cheffers, John T. F., May 349.  
 Chen, Stanley S., Oct. 505.  
 Christensen, Charlene E., Mar. 204.  
 Christensen, James E., Mar. 204.  
 Christopher, Jon R., Mar. 134.  
 Clark, Frank, Oct. 628.  
 Corbin, Charles B., May 499.  
 Costill, David L., May 436.  
 Cote, Richard, May 436.  
 Crookshank, H. R., Oct. 653.  
 Cunningham, Lee N., Dec. 741.  
 Cureton, Kirk J., May 270.  
 Custer, Sally J., Mar. 47.

### D

Davis, Myron, Oct. 628.  
 Dillman, Charles J., Oct. 569.  
 DiNucci, James M., Dec. 680.

Duke, Marshall, May 280.  
 Dunham, Paul, Jr., Mar. 51; May 284.  
 Duquin, Mary E., May 288.

### E

Emes, Claudia, Mar. 209.

### F

Fahey, Thomas D., May 293.  
 Feltz, Deborah L., Oct. 525.  
 Fielding, Lawrence W., Mar. 1.  
 Finn, Joan A., Mar. 56.  
 Fisher, A. Garth, Mar. 213.

### G

Gayle, Richard, Oct. 632.  
 Getchell, Leroy H., Mar. 61.  
 Gill, Diane L., Dec. 685.  
 Gilliam, Thomas B., Dec. 695.  
 Girandola, Robert N., May 299.  
 Graham, Gerald P. Mar. 219.  
 Gray, Laurence, May 319.  
 Greendorfer, Susan L., May 304.  
 Gruber, Joseph J., Mar. 68.  
 Gutin, Bernard, May 413.

### H

Halpin, Gerald, Mar. 191.  
 Halverson, Lolas E., May 311.  
 Haywood, H. Carl, May 265.  
 Haywood, Kathleen M., May 461.  
 Helfrich, Janet, Oct. 598.  
 Henry, Franklin M., Mar. 221.  
 Heyward, Vivian, Dec. 703.  
 Hopkins, David R., Oct. 535.  
 Horgan, James S., Dec. 711.  
 Horvath, Steven M., May 358.  
 Howley, Edward T., Oct. 637.  
 Hunt, Earl, May 401.

### I

Ismail, A. H., Oct. 617.  
 Iso-Ahola, Seppo, Oct. 541; Dec. 717.

**J**

- Jackson, Andrew S., Mar. 177.  
 Jessup, George T., Mar. 239.  
 Johnson, Robert E., Mar. 222.  
 Johnson, Roger, Mar. 74.  
 Johnson, Thomas C., May 280.

**K**

- Katch, V. Leslie, Dec. 786.  
 Katch, Victor, Mar. 105; May 319.  
 Kaufmann, D. A., May 328.  
 Kearney, Jay T., Dec. 734.  
 Kelley, E. James, May 463.  
 Kerr, Terry, May 293.  
 Kieffer, Leigh F., Oct. 550.  
 Kingsley, Joan L., Dec. 727.  
 Kinsey, William J., Mar. 248.  
 Kirkendall, Donald, Mar. 61.  
 Korell, Diane M., May 333.  
 Krahenbuhl, Gary S., Oct. 505; Dec. 797.  
 Kreighbaum, Ellen, May 480.  
 Kroll, Walter, Mar. 233; May 475.

**L**

- Lamphiear, Donald E., Mar. 109.  
 Lampley, James H., Oct. 637.  
 Lampley, Pamela M., Oct. 637.  
 Landers, Daniel M., Oct. 525; Dec. 661.  
 Lardner, Thomas J., Oct. 569.  
 Levine, David M., May 340.  
 Lewis, Sue, May 484.  
 Linden, Michael, Oct. 562.  
 Lindquist, E. Lorraine, Mar. 85.  
 Lindsay, Carl A., May 463.  
 Little, Mildred J., Mar. 239.  
 Lodge, B., Mar. 196.  
 Lohman, Timothy G., Mar. 159; May 270,  
 391; Dec. 750, 759.  
 Lu, Ping, Oct. 505.

**M**

- Marino, G. Wayne, Mar. 95.  
 Martin, Robert, May 319.  
 Martin, Stephen L., Dec. 797.  
 Martinek, Thomas J., May 349.  
 McCafferty, William B., May 358.  
 McCreary, Leslie, Dec. 703.  
 McDavid, Robert F., Mar. 98.  
 McLaughlin, Thomas M., Oct. 569.  
 Meeter, Duane, Mar. 74.  
 Michael, Ernest D., Jr., Mar. 105.  
 Misner, J. E., Mar. 159; May 270.  
 Moffatt, Robert J., Oct. 583; Dec. 786.  
 Montoye, Henry J., Mar. 109; Oct. 632.  
 Morris, Alfred F., Mar. 121.

- Morris, G. S. Don, May 480.  
 Morrow, James R., Jr., May 372.

**N**

- Neill, Robert D., Oct. 583.  
 Newmeister, Gayla Hansen, Mar. 129.  
 Newton, John, May 484.  
 Noland, Melody, Mar. 68.  
 Nowicki, Stephen, Jr., May 280.

**O**

- Ohelson, George, May 293.  
 Ordway, George A., Dec. 734.

**P**

- Paul, Tom, Oct. 628.  
 Penman, Kenneth A., Mar. 134.  
 Philpot, John, Oct. 632.  
 Pierce, Caryl, Oct. 592.  
 Pipes, Thomas V., Mar. 244.  
 Polidoro, J. Richard, Oct. 640.  
 Ponder, Leonard, Oct. 653.  
 Provancher, John, May 484.  
 Pruitt, B. E., May 489.  
 Pushkin, Martin H., Oct. 647.

**R**

- Racaniello, Annette P., Dec. 741.  
 Ramey, John S., Mar. 213.  
 Reddish, P. S., Mar. 196.  
 Renick, Jobyann, May 492.  
 Ridenour, Marcella V., Mar. 138.  
 Ridsdale, Susan, Oct. 592.  
 Robbins, Gwen, Mar. 61.  
 Robertson, Mary Ann, May 311.  
 Roberts, Glyn C., Oct. 541.  
 Roberts, Thomas W., May 311.  
 Robertshaw, Harry J., Oct. 647.  
 Romero, Gary, May 299.  
 Rothstein, Anne L., May 420.  
 Russell, Kathryn R. E., May 376.

**S**

- Sady, Stanley, Dec. 695.  
 Safrir, Margaret J., Mar. 169; May 311, 333,  
 376.  
 SaVile, William A., Oct. 650.  
 Scanlan, Tara Kost, Mar. 144.  
 Schnabl-Dickey, Elizabeth A., May 382.  
 Schroeder, Richard, May 293.  
 Schutz, Robert W., Mar. 248.  
 Seibert, Margret E., Dec. 727.  
 Shapiro, Diane C., Mar. 154.



Shepherd, B. H., Oct. 647.  
 Shire, Tanya L., May 391.  
 Sholes, Janet L., Dec. 741.  
 Shows, David A., Dec. 680.  
 Singleton, Russell M., May 461.  
 Sinning, Wayne E., Dec. 741.  
 Slaughter, M. H., Mar. 159; Dec. 750,  
 759.  
 Sloan, Muriel R., May 376.  
 Slovic, Paul, Dec. 769.  
 Smith, Ronald E., May 401.  
 Smoll, Frank L., May 401.  
 Sparling, Phillip B., Dec. 778.  
 Spieth, William R., May 408.  
 Stamford, Bryant A., Oct. 583; Dec. 786.  
 Stamm, Carol Lee, Mar. 169; May 376.  
 Stephenson, Deborah A., Mar. 177.  
 Stewart, Kerry Jay, Mar. 202; May 413.  
 Stranak, Linn M., Dec. 805.  
 Stratton, Richard K., May 428.  
 Straub, William F., Mar. 56.  
 Stull, G. Alan, Dec. 734.  
 Szyślak, Wiesława, Dec. 800.

## T

Thaxton, Anna B., May 420.  
 Thaxton, Nolan A., May 420.  
 Thomas, Jerry R., May 428; Oct. 592.  
 Thorland, William G., Dec. 695.  
 Tzuriel, David, May 265.

## V

Van Handel, Peter J., May 436.

## W

Wankel, Leonard M., Mar. 181.  
 Ward, Anderson J., Oct. 606.  
 Ware, W. B., May 328.  
 Watts, Parris R., Mar. 187.  
 Weber, Marie, May 445.  
 Weltman, Arthur L., May 319; Dec. 695,  
 786.  
 Whiddon, Thomas, Mar. 191.  
 Williams, Christine M., May 413.  
 Williams, Harriet G., Oct. 598.  
 Williams, L. R. T., Mar. 196.  
 Williams, Melvin H., Oct. 606.  
 Wilson, Barry D., Dec. 806.  
 Wirth, John C., May 391.  
 Wiswell, Robert A., May 299.  
 Witte, Fae, Mar. 85.  
 Wolf, Edward H., Oct. 623.  
 Wood, Geoffrey S., Mar. 134.  
 Woodman, William F., May 452.  
 Wrisberg, Craig A., Oct. 647.

## Y

Young, R. John, Oct. 617.  
 Young, Michael, Oct. 653.

## Z

Zaichowsky, Leonard D., May 349.  
 Zingale, Donald P., Mar. 12.  
 Zuti, William B., May 499.

### III. TOPIC INDEX

Each listing is followed by the month and the initial page number(s) of the article(s) in which the subject is discussed.

#### A

ability, relative, Dec. 685  
 activity levels of retarded children, May 265  
 aerobic capacity, and training schedules, Oct. 583; and hematological changes, Oct. 606  
 age differences and modeling ability, Oct. 592  
 age, effect on childrens' peak performance, Dec. 695  
 aligned rank tests, Oct. 623  
 anaerobic work output, optimal test of, May 319  
 anxiety, and skill acquisition, Oct. 550; state, Mar. 144; Dec. 685; state and trait, and motor performance, Mar. 181  
 athlete-coach compatibility, Dec. 671  
 athletes, female, acceptance of by college women, Dec. 727  
 athletics, May 358; assessment of coaches, May 401  
 attitudes, parents', and performance of children, May 382  
 attributions, causal and trait, following success/failure, Dec. 717  
 auditory signals, instrument for presenting sequences of, Oct. 647

#### B

badminton, May 492  
 baseball, May 408; Dec. 805  
 baseball bats, characteristics of, Oct. 505  
 basketball, Oct. 535  
 bicycle ergometer, maximal anaerobic work on, May 319; training, May 391  
 bilateral transfer, Mar. 51  
 biomechanical analysis, Oct. 569  
 birth order, and motor performance, Dec. 661; effects of, Mar. 33  
 block experiments, randomized, Oct. 623  
 blood, fingertip and venous, in measurement, May 293  
 body composition, Mar. 244; and bicycle ergometer training, May 391; and dehydration, May 299; and physical performance, Mar. 159; and somatotype relationship in boys, Dec. 750; of Nordic skiers, Dec. 741

body mass, lean, in college women, Dec. 759  
 body size and flexibility, Dec. 797

#### C

caffeine, effects of, May 436  
 caloric cost of playing golf, Oct. 637  
 cardiorespiratory, endurance in college women, May 413; function and bicycle ergometer training, May 391  
 careers, sport, May 452  
 center of gravity, path of, Mar. 222  
 cinematography, Oct. 569; timing method for, May 484  
 coach-athlete compatibility, Dec. 671  
 coaches, behavioral assessment of, May 401  
 coefficient of concordance, Mar. 169  
 coincidence-anticipation device, May 461; performance, Mar. 51  
 cola ingestion, May 436  
 competencies of PE teacher, May 445  
 competition, Mar. 24; Mar. 144; May 253; Dec. 685  
 computers, Mar. 202; Mar. 248; Oct. 628  
 contraception services, May 489  
 cubic spline, Oct. 569

#### D

decathlon, Oct. 562  
 decision-making in children, effects of on motor skills, May 349  
 dehydration, May 299  
 Delphi technique and future of leisure, Oct. 518  
 demonstrations, Oct. 525  
 depth perception, Mar. 129  
 displacement-time data and cubic spline, Oct. 569  
 diving, toppling techniques in, Dec. 806  
 drug knowledge and attitudes, Mar. 191

#### E

electronic coincidence-anticipation device, May 461  
 emotionally disturbed children, Mar. 68  
 endurance, relative, and static strength of

women athletes, Dec. 703; running, May 328  
 environment, effect of on performance, May 376  
 equipment, Mar. 213; Mar. 239; May 461; May 484; Oct. 632; Oct. 647; Oct. 650  
 ethics, code of, for coaches, Mar. 233; for officials and spectators, May 474  
 exercise performance, high intensity, Dec. 786  
 exercise protocol and aerobic capacity, Oct. 583  
 exercise, specificity of, in training, May 358  
 exercise stress testing, Dec. 778  
 eye movement speed, saccadic, and motor response, Oct. 598

## F

factor analysis of basketball skill tests, Oct. 535; of decathlon data, Oct. 562  
 fatigue, effects of, Mar. 121; muscular, Dec. 734  
 feedback conditions, effect on stabilometer performance of MR children, Dec. 711  
 female PE teacher role, May 445  
 fitness, Mar. 68; history of, Mar. 12; of decathlon champions, Oct. 562; norms for college freshmen, May 499  
 flexibility and body size, Dec. 797  
 fluid ingestion and dehydration, and body composition, May 299  
 football players, predicting potential of, Mar. 98

## G

games, used in teaching language arts, Mar. 134  
 gas volume, dry method of recording, Oct. 650  
 goal setting, Mar. 19  
 golf, Oct. 637  
 grade change, effect of on exercise task, Mar. 105  
 gymnastics, Mar. 177

## H

handicapped athletes, Mar. 209  
 health education, Mar. 187; Mar. 191; May 489  
 hematocrit and hemoglobin measurement, May 293  
 hematological changes and aerobic exercise, Oct. 606  
 hierarchical clustering, May 341  
 history of PE and sports, Mar. 1; Mar. 12

## I

ice skating, kinematics of, Mar. 93  
 informational-motivational components of a model's demonstration, Oct. 525  
 injuries, athletic, to women, Mar. 217  
 interception of moving object, Mar. 138  
 international: professional preparation in Scandinavia, Oct. 640  
 interpersonal behavior, Dec. 671  
 intrapersonal variables, Dec. 685  
 isometric exercise, Mar. 121; fatigue patterns, Dec. 734  
 isotonic exercise, Mar. 121

## J

joggers, women, Mar. 61  
 judging of gymnastics, Mar. 177

## K

knowledge obsolescence in PE teachers, May 463  
 knowledge of results and motor learning, Mar. 154

## L

lactate removal and exercise performance, Dec. 786  
 language arts and gross motor activity, Mar. 134  
 learning, Mar. 154; May 428; by retarded children, May 265; observational, Oct. 525  
 leisure, future of, Oct. 518  
 locus of control, Mar. 56; orientation in children, May 280

## M

marathon, training and performance in, Dec. 769  
 maternal influence and motor performance, Dec. 661  
 measurement, Dec. 800  
 modeling behavior, Oct. 592  
 motor activity and language arts, Mar. 134  
 motor learning, Mar. 154  
 motor performance, Oct. 592; and anxiety, Mar. 181; and birth order and maternal influence, Dec. 661; and success and failure, Dec. 717; of Black and Caucasian girls, Dec. 680  
 motor response and eye movement speed, Oct. 598  
 motor skill, development of, May 349; learning, Mar. 41; May 428; Oct. 550

motor task, gross, learning of, Mar. 19;  
 performance, effects of environment and  
 test order on, May 376; causal at-  
 tributions for success and failure in,  
 Oct. 541  
 movement, adaptation to outside forces,  
 measurement of, Dec. 800  
 movement exploration method, May 420  
 multidimensional scaling, May 333; May  
 341

## O

order of testing, effect of on performance,  
 May 376  
 overlearning, Mar. 41  
 oxygen consumption, Mar. 47  
 oxygen uptake among women joggers,  
 Mar. 61

## P

parents' child-rearing attitudes and chil-  
 dren's performance, May 382  
 patellar tendon reflex, Mar. 121  
 pedometers, accuracy of, Oct. 632  
 perceptual motor achievement, Mar. 68  
 performance measures, peak, in children,  
 Dec. 695  
 personality, Mar. 56  
 personality variables in male exercisers,  
 Oct. 617  
 physical education teacher role, identifica-  
 tion of, May 445  
 physical education teaching, May 463  
 physical performance, Mar. 159; estimation  
 of maximum, Mar. 74  
 physiological response to cola ingestion,  
 May 436  
 physiological variables in male exercisers,  
 Oct. 617  
 pitching skill development, May 408  
 placement of training sessions, Oct. 583  
 point-gage, water displacement technique  
 to determine limb volume, Mar. 239  
 potential, prediction of, Mar. 98  
 practice, Mar. 51; Mar. 85; effect of on  
 ball velocity, May 311; order and bi-  
 lateral skill acquisition, May 284  
 President's Council on Physical Fitness and  
 Sports, Mar. 12  
 psychological scaling, Mar. 233; May 475  
 psychology, Mar. 24; Mar. 56; Mar. 144

## R

rating of teachers by students, May 372  
 rank order pairing, Mar. 221  
 rats, effects of an anabolic steroid on,  
 Oct. 653

recovery from exercise, Dec. 786  
 recreation, future of, Oct. 518  
 reliability of motor performance tests,  
 Mar. 169  
 research, statistical power analysis of,  
 Mar. 204  
 rest intervals, psycho-physical effects of,  
 May 260  
 retarded children, Mar. 41; activity level  
 and learning by, May 265  
 rhythmic isometric fatigue patterns, Dec.  
 734  
 rhythmic response, effect of divided atten-  
 tion on, May 428  
 running performance, and oxygen con-  
 sumption, Mar. 47; distance, in children,  
 May 270

## S

scaling techniques, May 333  
 scholastic achievement, Mar. 68  
 scores, best or average as criterion, Mar. 74  
 scoring systems for squash, Mar. 248  
 selected attention, May 428  
 self-concept and decision-making, May 349  
 self-enhancement and attributions of suc-  
 cess/failure, Dec. 717  
 self-protective behavior, Mar. 144  
 sensory-motor training, visually directed,  
 and depth perception, Mar. 129  
 seriation, May 333  
 sex differences and training programs,  
 Oct. 510  
 sex role, May 288  
 sexuality teaching methods, Mar. 187  
 skill acquisition, May 284  
 skill (baseball) development, May 408  
 skill learning, Mar. 138; effects of TM on,  
 Mar. 196  
 skill tests, Oct. 535  
 social acceptability of female athletes,  
 Dec. 727  
 socialization, and female sport involve-  
 ment, May 304; toward activity, May 288  
 sociology, Mar. 12  
 somatotype, and body composition relation-  
 ship in boys, Dec. 750; and physical  
 performance, Mar. 159; in college wo-  
 men, Dec. 759; of Nordic skiers, Dec.  
 741  
 specificity of exercise and training, May 358  
 speed, effect of on exercise task, Mar. 105  
 sport history, Mar. 1  
 sport, dangerous, participation in, Mar. 33;  
 involvement of women, May 304; partic-  
 ipation choice process, May 452; per-  
 ception of, May 341  
 sports fitness camp, May 280  
 sprinter's starts for base stealing, Dec. 805

squash, Mar. 248; May 492  
 squat monitor, Mar. 213  
 stabilometer performance, effect of feed-back on, by MR children, Dec. 711  
 statistical estimation, Mar. 74  
 statistics, Mar. 169; Mar. 204; Mar. 221; May 333; Oct. 569; Oct. 623  
 steroid, anabolic, effect of on rats, Oct. 653  
 strength, grip and arm, Mar. 109; static, and endurance in women athletes, Dec. 703  
 student ratings of teachers, May 372  
 stroboscopic photography, Oct. 628  
 success and failure, at motor tasks, Oct. 541; causal and trait attributions following, Dec. 717

## T

teacher role, May 445  
 teaching methods, Mar. 187  
 teaching, PE, preparation for in Norway, Sweden, Denmark, Oct. 640  
 team performance, prediction of, Mar. 24  
 tennis skills, beginning, Mar. 85  
 testing, Mar. 74; Mar. 169; May 376; May 420; Oct. 535; Oct. 623; Dec. 778  
 throwing, by kindergarten children, May 311

tie point strategy in badminton and squash, May 492  
 time schedule, Mar. 85  
 timing method for cinematography, May 484  
 track and field athletes, body composition of, Mar. 244  
 training, for marathon, Dec. 769; programs, effects of similar on males and females, Oct. 510  
 transcendental meditation, Mar. 196

## V

velocity and kinematics of ice skating, Mar. 93  
 visual acuity, dynamic, May 480

## W

warm-up, May 260; and recovery techniques, effect of on running endurance, May 328  
 weighted average tau, Mar. 169  
 wheelchair athletes, work capacity of, Mar. 209  
 winning, emphasis on, May 253  
 work capacity of wheelchair athletes, Mar. 209  
 work effort, effect of speed and grade change on, Mar. 105

## STATEMENT OF OWNERSHIP—RESEARCH QUARTERLY

STATEMENT REQUIRED BY THE ACT OF OCTOBER 23, 1962; SECTION 4369, TITLE 39, UNITED STATES CODE SHOWING THE OWNERSHIP, MANAGEMENT, AND CIRCULATION OF THE RESEARCH QUARTERLY, published four times a year: March, May, October, December. Published at Lancaster Press, Inc., Prince & Lemon Sts., Lancaster, Pa. 17604. The general business offices of the publisher are located at 1201 16th St., N.W., Washington, D.C. 20036.

The names and addresses of the publisher and managing editor are as follows: Publisher, American Alliance for Health, Physical Education, and Recreation, 1201 16th St., N.W., Washington, D.C. 20036; Managing Editor, Nancy Rosenberg, AAHPER, 1201 16th St., N.W., Washington, D.C. 20036.

The owner is: American Alliance for Health, Physical Education, and Recreation, 1201 16th St., N.W., Washington, D.C. 20036. Names and addresses of stockholders owning or holding 1 percent or more of total amount of stock: none. Known bondholders, mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities: none.

Of the membership dues (\$25.00), \$5.00 covers subscription to the Research Quarterly.

The average number of copies each issue during the preceding 12 months are: (A) Total number copies printed (net press run): 13,125; (B) Paid circulation: (1) sales through dealers and carriers, street vendors and counter sales: none; (2) mail subscriptions: 11,500; (C) Total paid circulation: 11,500; (D) Free distribution (including samples) by mail, carriers, or by other means: 1,000; (E) Total distribution: 12,500. The number of copies, single issue nearest to filing date: (A) Total number copies printed (net press run): 13,000; (B) Paid circulation: (1) sales through dealers and carriers, street vendors, and counter sales: none; (2) mail subscriptions: 11,000; (C) Total paid circulation: 11,000; (D) Free distribution (including samples) by mail, carrier, or other means: 1,000; (E) Total distribution: 12,000.

I certify that the statements made by me above are correct and complete.

(Signed) Nancy Rosenberg  
 Managing Editor